



2131 Receipt JFW  
Attorney Docket No. 032326-293

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of )  
Olivier Billet et al. ) Group Art Unit: 2131  
Application No.: 10/523,840 ) Examiner:  
Filed: August 18, 2005 ) Confirmation No.: 4245  
For: UNIVERSAL CALCULATION METHOD )  
APPLIED TO POINTS ON AN ELLIPTIC )  
CURVE DEFINED BY A QUARTIC, )  
AND ASSOCIATED CRYPTOGRAPHIC )  
METHOD AND ELECTRONIC )  
COMPONENT )

REQUEST FOR CORRECTED OFFICIAL FILING RECEIPT

Commissioner for Patents  
Office of Initial Patent Examination  
Customer Service Center  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Enclosed is a copy of the Official Filing Receipt marked in red to show corrections that are needed. The corrections are as follows:

In the Assignment information, please change the city from "La Ciotat Cedex" to - -Gemenos- -; and please change the title to - -Universal Calculation Method Applied to Points on an Elliptic Curve Defined by a Quartic and Associated Cryptographic Method and Electronic Component- -.

Issuance of a corrected Official Filing Receipt is respectfully requested.

Respectfully submitted,

BUCHANAN INGERSOLL PC

Date: November 23, 2005

By: 

James A. LaBarre  
Registration No. 28,632

P.O. Box 1404  
Alexandria, Virginia 22313-1404  
(703) 836-6620



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/523,840	08/18/2005	2131	1030	032326-293	1	14	1

21839

BUCHANAN INGERSOLL PC  
(INCLUDING BURNS, DOANE, SWECKER & MATHIS)  
POST OFFICE BOX 1404  
ALEXANDRIA, VA 22313-1404



CONFIRMATION NO. 4245

## FILING RECEIPT



\*OC000000017046275\*

Date Mailed: 11/08/2005

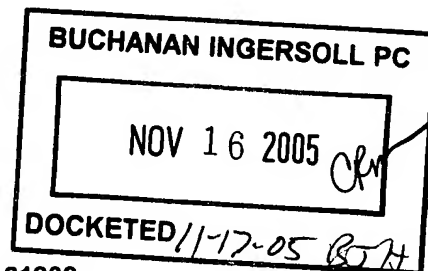
Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Olivier Billet, Tourrettes sur Loup, FRANCE;  
Marc Joye, Saint Zacharie, FRANCE;

## Assignment For Published Patent Application

Gemplus, La Ciotat Cedex, FRANCE  
Ciemenos



**Power of Attorney:** The patent practitioners associated with Customer Number 21839.

## Domestic Priority data as claimed by applicant

This application is a 371 of PCT/FR03/02462 08/05/2003

## Foreign Applications

FRANCE 02/10193 08/09/2002

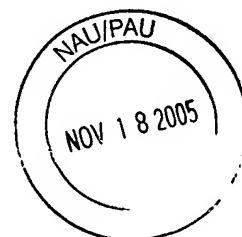
032326-293  
JAL/NEW

**Projected Publication Date:** To Be Determined - pending completion of Security Review

**Non-Publication Request:** No

**Early Publication Request:** No

**Title**



method on

Method for universal calculation applied to points of an elliptic curve Defined by a Quartic  
and Associated Cryptographic Method and Electronic Component

**Preliminary Class**

380

**PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES**

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

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Title 35, United States Code, Section 184  
Title 37, Code of Federal Regulations, 5.11 & 5.15**

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1.53(d). This license is not retroactive.

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**NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).



Patent  
Attorney's Docket No. 032326-293

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Olivier Billet et al.

Application No.: 10/523,840

Filed: August 18, 2005

For: UNIVERSAL CALCULATION METHOD  
APPLIED TO POINTS ON AN ELLIPTIC  
CURVE DEFINED BY A QUARTIC,  
AND ASSOCIATED CRYPTOGRAPHIC  
METHOD AND ELECTRONIC  
COMPONENT

) MAIL STOP: ASSIGNMENT  
) RECORDATION SERVICES

) Group Art Unit: 2131

) Examiner:

) Confirmation No.: 4245

REQUEST FOR CORRECTED NOTICE OF  
RECORDATION OF ASSIGNMENT DOCUMENT

Director of the United States Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Upon review of the Notice of Recordation of Assignment Document in connection with the above-identified application, the undersigned has noted the following error(s) on the part of the U.S. Patent and Trademark Office:


Please change the title to - - UNIVERSAL CALCULATION METHOD APPLIED TO POINTS ON AN ELLIPTIC CURVE DEFINED BY A QUARTIC, AND ASSOCIATED CRYPTOGRAPHIC METHOD AND ELECTRONIC COMPONENT- -

Enclosed is a copy of the original Notice of Recordation of Assignment Document with corrections marked in red. It is respectfully requested that the above correction(s) be made and that a corrected Notice of Recordation of Assignment Document be issued.

Respectfully submitted,

BUCHANAN INGERSOLL PC

Date: November 23, 2005

By:   
James A. LaBarre  
Registration No. 28,632

P.O. Box 1404  
Alexandria, Virginia 22313-1404  
(703) 836-6620

**UNITED STATES PATENT AND TRADEMARK OFFICE**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

OCTOBER 18, 2005

PTAS

**\*700204448A\***

BUCHANAN INGERSOLL PC  
(INCLUDING BURNS, DOANE, SWECKER & MATHI  
POST OFFICE BOX 1404  
ALEXANDRIA, VA 22313-1404

**\*700204448A\***UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF  
THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS  
AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER  
REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE  
INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA  
PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD  
FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY  
CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350.  
PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE,  
MAIL STOP: ASSIGNMENT SERVICES DIVISION, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 08/18/2005

REEL/FRAME: 016648/0415  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

## ASSIGNOR:

BILLET, OLIVIER

DOC DATE: ~~03/02/2005~~  
07/22/2005

## ASSIGNOR:

JOYE, MARC

DOC DATE: ~~07/22/2005~~  
03/02/2005

## ASSIGNEE:

GEMPLUS  
AVENUE DU PIC DE BERTAGNE  
PARC D'ACTIVITES DE GEMENOS  
GEMENOS, FRANCE F-13420

016648/0415 PAGE 2

SERIAL NUMBER: 10523840




FILING DATE: 08/18/2005

PATENT NUMBER:

ISSUE DATE: ~~AN~~

TITLE: UNIVERSAL CALCULATION METHOD APPLIED TO POINTS ON ~~AN~~ ELLIPTIC CURVE  
DEFINED BY A QUARTIC, AND ~~ASSOCIATE~~ CRYPTOGRAPHIC METHOD AND  
ELECTRONIC COMPONENT *Associated*

SHARON BROOKS, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office <b>RECORDATION COVER SHEET</b> <b>PATENTS ONLY</b>		Attorney's Docket No. 032326-293								
To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.										
1. Name of conveying party(ies):  Olivier BILLET; and Marc JOYE  Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Name: GEMPLUS  Address: Avenue du Pic de Bertagne, Parc d'Activites de Gemenos, F-13420 Gemenos, France  Additional name(s) & addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No									
3. Nature of conveyance: <input type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other  Execution Date: 03/02/05; and 07/22/05										
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: _____  <table style="width: 100%;"> <tr> <td style="width: 50%;">           A. Patent Application No.(s)            10/523,840         </td> <td style="width: 50%;">           B. Patent No.(s)         </td> </tr> </table> Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			A. Patent Application No.(s) 10/523,840	B. Patent No.(s)						
A. Patent Application No.(s) 10/523,840	B. Patent No.(s)									
5. Name and address of party to whom correspondence concerning document should be mailed:  Name: James A. LaBarre  Address:  Burns, Doane, Swecker & Mathis, L.L.P. Customer Number 2 1 8 3 9 P.O. Box 1404 Alexandria, Virginia 22313-1404	6. Total number of applications and patents involved: <span style="border: 1px solid black; padding: 2px;">1</span>  7. Total fee (37 CFR 3.41) .....\$ <u>40.00 (8021)</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Credit card. Form PTO-2038 is attached.  8. Deposit account number:  <u>02-4800</u> (Attach duplicate copy of this page if paying by deposit account.)									
<b>DO NOT USE THIS SPACE</b>										
9. Statement and Signature. <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i>  <table style="width: 100%;"> <tr> <td style="width: 35%;">James A. LaBarre</td> <td style="width: 15%;">28,632</td> <td style="width: 30%; text-align: center;">  </td> <td style="width: 20%; text-align: right;">August 18, 2005</td> </tr> <tr> <td>Name of Person Signing</td> <td>Reg. No.</td> <td>Signature</td> <td>Date</td> </tr> </table> Total number of pages including cover sheet, attachments, and documents: <span style="border: 1px solid black; padding: 2px;">3</span>			James A. LaBarre	28,632		August 18, 2005	Name of Person Signing	Reg. No.	Signature	Date
James A. LaBarre	28,632		August 18, 2005							
Name of Person Signing	Reg. No.	Signature	Date							

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## Facsimile Transmission

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Voice Phone: 703-308-9723

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Company: (INCLUDING BURNS, DOANE, SWECKER & MATHI  
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Pg#	Description
1	Cover Page
2	386.TXT
4	Document 1, Batch 514915

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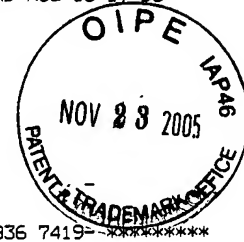
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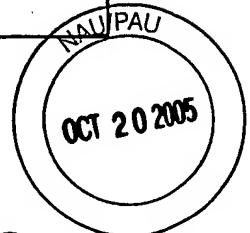
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703 836 7419-\*\*\*\*\*

Substitute for Form PTO-1595		RECORDATION FORM COVER SHEET PATENTS ONLY		U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office	
				Attorney's Docket No. 032326-293	
To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.					
1. Name of conveying party(ies):  Olivier BILLET; and Marc JOYE			2. Name and address of receiving party(ies): Name: GEMPLUS  Address: Avenue du Pic de Bertagne, Parc d'Activites de Gemanos, F-13420 Gemanos, France		
Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
3. Nature of conveyance: <input type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other					
Execution Date: 03/02/05; and 07/22/05					
			Additional name(s) & addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: _____					
A. Patent Application No.(s) 10/523,840			B. Patent No.(s)		
			Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Name and address of party to whom correspondence concerning document should be mailed: Name: James A. LaBarre Address: Burns, Doane, Swecker & Mathis, L.L.P. Customer Number 2 1 8 3 9 P.O. Box 1404 Alexandria, Virginia 22313-1404			6. Total number of applications and patents involved: <input type="text" value="1"/>		
			7. Total fee (37 CFR 3.41).....\$ 40.00 (8021) <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Credit card. Form PTO-2038 is attached.		
			8. Deposit account number: 02-4800 (Attach duplicate copy of this page if paying by deposit account.)		
DO NOT USE THIS SPACE					
9. Statement and Signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.					
James A. LaBarre		28,632		August 18, 2005	
Name of Person Signing		Reg. No.		Signature	
				Date	
Total number of pages including cover sheet, attachments, and documents:				<input type="text" value="3"/>	

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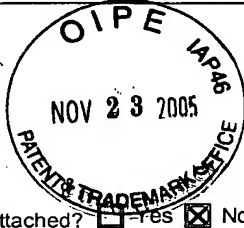
DOCKETED  
filed 8-18-05  
KJ ALB

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office**Attorney's Docket No. 032326-293**

To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Olivier BILLET; and Marc JOYE



## 2. Name and address of receiving party(ies):

Name: GEMPLUS

## Address:

Avenue du Pic de Bertagne, Parc d'Activites de Gemenos,  
F-13420 Gemenos, FranceAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

- ☐ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: 03/02/05; and 07/22/05Additional name(s) & addresses attached? ☐ Yes ☒ No

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)  
10/523,840

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: James A. LaBarre

Address:

Burns, Doane, Swecker & Mathis, L.L.P.  
Customer Number 2 1 8 3 9  
P.O. Box 1404  
Alexandria, Virginia 22313-14046. Total number of applications and patents involved: 7. Total fee (37 CFR 3.41).....\$ \$40.00 (8021)

- ☐ Enclosed  
☒ Authorized to be charged to deposit account  
☐ Credit card. Form PTO-2038 is attached.

## 8. Deposit account number:

**02-4800**

(Attach duplicate copy of this page if paying by deposit account.)

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## 9. Statement and Signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*James A. LaBarre  
Name of Person Signing28,632  
Reg. No.  
SignatureAugust 18, 2005  
DateTotal number of pages including cover sheet, attachments, and documents: 

Mail documents to be recorded with required cover sheet information to:  
Director of the United States Patent and Trademark Office / Mail Stop Assignment Recordation Services  
P.O. Box 1450 / Alexandria, VA 22313-1450

# ASSIGNMENT

## (JOINT)

THIS ASSIGNMENT, by Olivier BILLET, and Marc JOYE, residing at Tourrettes sur Loup, France and Saint-Zacharie, France (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in UNIVERSAL CALCULATION METHOD APPLIED TO POINTS ON AN ELLIPTIC CURVE DEFINED BY A QUARTIC, AND ASSOCIATED CRYPTOGRAPHIC METHOD AND ELECTRONIC COMPONENT set forth in an application for Letters Patent of the United States, which is a

- (1) ☐ provisional application
  - (a) ☐ bearing Application No. \_\_\_\_\_, and filed on \_\_\_\_\_;
  - (b) ☐ to be filed herewith; or
- (2) ☒ non-provisional application
  - (a) ☐ bearing Application No. \_\_\_\_\_, and filed on \_\_\_\_\_;
  - (b) ☒ having an oath or declaration executed on even date herewith prior to filing of application;
  - (c) ☐ having an oath or declaration executed on a different date than this Assignment; and

WHEREAS, GEMPLUS, a corporation duly organized under and pursuant to the laws of France and having a principal place of business at Avenue du Pic de Bertagne, Parc d'Activites de Gemenos, F-13420 Gemenos, France (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behoof and the use and behoof of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby authorize and request the attorneys of Burns, Doane, Swecker & Mathis, L.L.P. to insert in the spaces provided above the title of the invention, filing date, application number, and attorney's docket number of said application when known.

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behoof of the Assignee, its successors, legal representatives, and assigns.

DATE 02/03/2005

  
\_\_\_\_\_  
Marc JOYE

DATE 22/02/2005

  
\_\_\_\_\_  
Olivier BILLET